

Please print or type in the unshaded areas only  
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

<b>FORM</b> <b>3</b>	<b>DANGEROUS WASTE PERMIT APPLICATION</b>	I. EPA/STATE I.D. NUMBER <table border="1" style="width: 100%; border-collapse: collapse;"><tr><td>W</td><td>A</td><td>7</td><td>8</td><td>9</td><td>0</td><td>0</td><td>0</td><td>8</td><td>9</td><td>6</td><td>7</td></tr></table>	W	A	7	8	9	0	0	0	8	9	6	7
W	A	7	8	9	0	0	0	8	9	6	7			
FOR OFFICIAL USE ONLY														
APPLICATION APPROVED	DATE RECEIVED (mo., day, & yr.)	COMMENTS												
		<b>Approved 01/12/00</b>												
<b>II. FIRST OR REVISED APPLICATION</b>														
<p>Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.</p>														
<div style="display: flex; justify-content: space-between;"><div style="width: 48%;"><p><b>A. FIRST APPLICATION</b> (place an "X" below and provide the appropriate date)</p><div style="display: flex; justify-content: space-between;"><div style="width: 48%;"><p><input type="checkbox"/> 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)</p><table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 33%;">MO.</td><td style="width: 33%;">DAY</td><td style="width: 33%;">YEAR</td></tr><tr><td style="text-align: center;">03</td><td style="text-align: center;">22</td><td style="text-align: center;">1943</td></tr></table><p><i>*FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, &amp; yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)</i></p><p><i>*The date construction of the Hanford Facility commenced.</i></p></div><div style="width: 48%;"><p><input type="checkbox"/> 2. NEW FACILITY (Complete item below)</p><table border="1" style="width: 100%; border-collapse: collapse;"><tr><td style="width: 33%;">MO.</td><td style="width: 33%;">DAY</td><td style="width: 33%;">YEAR</td></tr><tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr></table><p>FOR NEW FACILITIES, PROVIDE THE DATE, (mo., day, &amp; yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN</p></div></div></div><div style="width: 48%;"><p><input checked="" type="checkbox"/> 1. FACILITY HAS AN INTERIM STATUS PERMIT</p><p><input checked="" type="checkbox"/> 2. FACILITY HAS A FINAL PERMIT</p></div></div>			MO.	DAY	YEAR	03	22	1943	MO.	DAY	YEAR			
MO.	DAY	YEAR												
03	22	1943												
MO.	DAY	YEAR												
<b>III. PROCESS - CODES AND CAPACITIES</b>														
<p><b>A. PROCESS CODE</b> - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the (Section III-C).</p>														
<p><b>B. PROCESS DESIGN CAPACITY</b> - For each code entered in column A enter the capacity of the process.</p>														
<p>1. AMOUNT - Enter the amount.</p>														
<p>2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.</p>														
	PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY		PRO- CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY									
<b>Storage:</b>			<b>Treatment:</b>											
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY									
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY									
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR									
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS												
<b>Disposal:</b>														
INJECTION WELL	D80	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided: Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY									
LANDFILL	D81	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER												
LAND APPLICATION	D82	ACRES OR HECTARES												
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY												
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS												
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE CODE									
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A									
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F									
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B									
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q									
GALLONS PER DAY	U	LITERS PER HOUR	H											
<b>EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.</b>														
A. PROCESS		B. PROCESS DESIGN CAPACITY												

LINE NUMBER	CODE (from list above)	1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY			
X-1	S02	600	G				
X-2	T03	20	E				
1	S02	348,390,160	L				
2	T01	2,271,240	V				
3	S03	0.11	C				
4							
5							
6							
7							
8							
9							
10							

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

#### S02, T01

The Single-Shell Tank (SST) System consists of 149 tanks that were built between the years 1943 and 1964 to store mixed waste (S02) generated on the Hanford Site. There are two types of tanks in the SST System, the 100 series and the 200 series. The 133 100-series SSTs are 23 meters (75 feet) in diameter with operating capacities of 1,892,700 to 3,785,400 liters (500,000 to 1,000,000 gallons). The sixteen 200-series SSTs are smaller and of a similar design with a 6 meter (20 foot) diameter and a capacity of 208,197 liters (55,000 gallons). The SST System also includes two waste transfer vault systems, the 244-AR and 244-CR Vault. The 244-AR Vault contains four permitted tanks and the 244-CR Vault contains two permitted tanks. Table 1 lists tank numbers, year of construction, year removed from service, and operating capacity.

The maximum process design capacity for tank storage at the SST System is 348,390,160 liters (92,035,230 gallons).

Treatment of the mixed waste in the SST System occurs when solids and interstitial liquids are separated and/or cooling liquids are added (T01). These treatment processes involve, but are not limited to, mechanical retrieval, sluicing, and saltwell pumping of the mixed waste. The SST System has a process design limit of 2,271,240 liters (600,000 gallons) per day based on the simultaneous pumping of two SSTs in a 24-hour period. Ancillary equipment used for the transfer of liquid mixed waste consists of: (1) centrifugal pumps capable of pumping liquid mixed waste at 1,514 liters (400 gallons) per minute, (2) induction pumps capable of pumping liquid waste from the salt well at 19 liters (5 gallons) per minute, and (3) associated valves and piping to the DSY System. Mechanical equipment, sluicing equipment, and similar treatment/processes are not limited to the processes described previously.

The maximum process design capacity for tank treatment at the SST System is 2,271,240 liters (600,000 gallons) per day.

#### S03

Associated with the SST System are 54 inactive diversion boxes designated as waste piles (S03). A summary of the SST System and corresponding diversion boxes is provided in Table 2. All diversion boxes used within the SST System are inactive and presently are isolated (weather covered). "Isolated" as used here means exterior water intrusion has been restricted.

The maximum process design capacity for waste pile storage at the SST System is approximately 23 kilograms (50 pounds) of waste lead stored in each diversion box (worst-case scenario) accounting for a total of 1,202 kilograms (2,650 pounds) or 0.11 cubic meter (0.14 cubic yard) of waste lead in storage.

**Table 1 - Single Shell Tank Summary**

Tank Number	Year of Construction	Year Removed from Service <sup>1</sup>	Operating Capacity (Liters)
241-A-101	1954-1955	1980	3,785,400
241-A-102	1954-1955	1980	3,785,400
241-A-103	1954-1955	1980	3,785,400
241-A-104	1954-1955	1975	3,785,400
241-A-105	1954-1955	1963	3,785,400
241-A-106	1954-1955	1980	3,785,400
241-AX-101	1963-1964	1980	3,785,400
241-AX-102	1963-1964	1980	3,785,400
241-AX-103	1963-1964	1980	3,785,400
241-AX-104	1963-1964	1978	3,785,400
241-B-101	1943-1944	1974	1,892,700
241-B-102	1943-1944	1978	1,892,700

241-B-103	1943-1944	1977	1,892,700
241-B-104	1943-1944	1972	1,892,700
241-B-105	1943-1944	1972	1,892,700
241-B-106	1943-1944	1977	1,892,700
241-B-107	1943-1944	1969	1,892,700
241-B-108	1943-1944	1977	1,892,700
241-B-109	1943-1944	1977	1,892,700
241-B-110	1943-1944	1971	1,892,700
241-B-111	1943-1944	1976	1,892,700
241-B-112	1943-1944	1977	1,892,700
241-B-201	1943-1944	1971	208,197
241-B-202	1943-1944	1977	208,197
241-B-203	1943-1944	1977	208,197
241-B-204	1943-1944	1977	208,197
241-BX-101	1946-1947	1972	1,892,700
241-BX-102	1946-1947	1971	1,892,700
241-BX-103	1946-1947	1977	1,892,700
241-BX-104	1946-1947	1980	1,892,700
241-BX-105	1946-1947	1980	1,892,700
241-BX-106	1946-1947	1971	1,892,700
241-BX-107	1946-1947	1977	1,892,700
241-BX-108	1946-1947	1974	1,892,700
241-BX-109	1946-1947	1974	1,892,700
241-BX-110	1946-1947	1977	1,892,700
241-BX-111	1946-1947	1977	1,892,700
241-BX-112	1946-1947	1977	1,892,700
241-BY-101	1948-1949	1971	2,839,050
241-BY-102	1948-1949	1977	2,839,050
241-BY-103	1948-1949	1973	2,839,050
241-BY-104	1948-1949	1977	2,839,050
241-BY-105	1948-1949	1974	2,839,050
241-BY-106	1948-1949	1977	2,839,050
241-BY-107	1948-1949	1974	2,839,050
241-BY-108	1948-1949	1972	2,839,050
241-BY-109	1948-1949	1979	2,839,050
241-BY-110	1948-1949	1979	2,839,050
241-BY-111	1948-1949	1977	2,839,050
241-BY-112	1948-1949	1978	2,839,050
241-C-101	1943-1944	1970	1,892,700
241-C-102	1943-1944	1976	1,892,700
241-C-103	1943-1944	1979	1,892,700
241-C-104	1943-1944	1980	1,892,700
241-C-105	1943-1944	1979	1,892,700
241-C-106	1943-1944	1979	1,892,700
241-C-107	1943-1944	1978	1,892,700
241-C-108	1943-1944	1976	1,892,700
241-C-109	1943-1944	1976	1,892,700
241-C-110	1943-1944	1976	1,892,700
241-C-111	1943-1944	1978	1,892,700
241-C-112	1943-1944	1976	1,892,700
241-C-201	1943-1944	1977	208,197
241-C-202	1943-1944	1977	208,197
241-C-203	1943-1944	1977	208,197
241-C-204	1943-1944	1977	208,197
241-S-101	1950-1951	1980	2,839,050
241-S-102	1950-1951	1980	2,839,050
241-S-103	1950-1951	1980	2,839,050
241-S-104	1950-1951	1968	2,839,050
241-S-105	1950-1951	1974	2,839,050

241-S-106	1950-1951	1979	2,839,050
241-S-107	1950-1951	1980	2,839,050
241-S-108	1950-1951	1979	2,839,050
241-S-109	1950-1951	1979	2,839,050
241-S-110	1950-1951	1979	2,839,050
241-S-111	1950-1951	1972	2,839,050
241-S-112	1950-1951	1974	2,839,050
241-SX-101	1953-1954	1980	3,785,400
241-SX-102	1953-1954	1980	3,785,400
241-SX-103	1953-1954	1980	3,785,400
241-SX-104	1953-1954	1980	3,785,400
241-SX-105	1953-1954	1980	3,785,400
241-SX-106	1953-1954	1980	3,785,400
241-SX-107	1953-1954	1964	3,785,400
241-SX-108	1953-1954	1962	3,785,400
241-SX-109	1953-1954	1965	3,785,400
241-SX-110	1953-1954	1976	3,785,400
241-SX-111	1953-1954	1974	3,785,400
241-SX-112	1953-1954	1969	3,785,400
241-SX-113	1953-1954	1958	3,785,400
241-SX-114	1953-1954	1972	3,785,400
241-SX-115	1953-1954	1965	3,785,400
241-T-101	1943-1944	1979	1,892,700
241-T-102	1943-1944	1976	1,892,700
241-T-103	1943-1944	1974	1,892,700
241-T-104	1943-1944	1974	1,892,700
241-T-105	1943-1944	1976	1,892,700
241-T-106	1943-1944	1973	1,892,700
241-T-107	1943-1944	1976	1,892,700
241-T-108	1943-1944	1974	1,892,700
241-T-109	1943-1944	1974	1,892,700
241-T-110	1943-1944	1976	1,892,700
241-T-111	1943-1944	1974	1,892,700
241-T-112	1943-1944	1977	1,892,700
241-T-201	1943-1944	1976	208,197
241-T-202	1943-1944	1976	208,197
241-T-203	1943-1944	1976	208,197
241-T-204	1943-1944	1976	208,197
241-TX-101	1947-1948	1980	2,839,050
241-TX-102	1947-1948	1977	2,839,050
241-TX-103	1947-1948	1980	2,839,050
241-TX-104	1947-1948	1977	2,839,050
241-TX-105	1947-1948	1977	2,839,050
241-TX-106	1947-1948	1977	2,839,050
241-TX-107	1947-1948	1977	2,839,050
241-TX-108	1947-1948	1977	2,839,050
241-TX-109	1947-1948	1977	2,839,050
241-TX-110	1947-1948	1977	2,839,050
241-TX-111	1947-1948	1977	2,839,050
241-TX-112	1947-1948	1974	2,839,050
241-TX-113	1947-1948	1971	2,839,050
241-TX-114	1947-1948	1971	2,839,050
241-TX-115	1947-1948	1977	2,839,050
241-TX-116	1947-1948	1969	2,839,050
241-TX-117	1947-1948	1969	2,839,050
241-TX-118	1947-1948	1980	2,839,050
241-TY-101	1951-1952	1973	2,839,050
241-TY-102	1951-1952	1979	2,839,050
241-TY-103	1951-1952	1973	2,839,050
241-TY-104	1951-1952	1974	2,839,050

241-TY-105	1951-1952	1980	2,839,050
241-TY-106	1951-1952	1959	2,839,050
241-U-101	1943-1944	1960	1,892,700
241-U-102	1943-1944	1979	1,892,700
241-U-103	1943-1944	1978	1,892,700
241-U-104	1943-1944	1951	1,892,700
241-U-105	1943-1944	1978	1,892,700
241-U-106	1943-1944	1977	1,892,700
241-U-107	1943-1944	1980	1,892,700
241-U-108	1943-1944	1979	1,892,700
241-U-109	1943-1944	1978	1,892,700
241-U-110	1943-1944	1975	1,892,700
241-U-111	1943-1944	1980	1,892,700
241-U-112	1943-1944	1970	1,892,700
241-U-201	1943-1944	1977	208,197
241-U-202	1943-1944	1977	208,197
241-U-203	1943-1944	1977	208,197
241-U-204	1943-1944	1977	208,197

### Waste Transfer Vaults

Tank Number	Year of Construction	Year Removed from Service <sup>1</sup>	Operating Capacity (Liters)
244-AR-001	1976	NA	162,772
244-AR-002	1976	NA	162,772
244-AR-003	1976	NA	18,113
244-AR-004	1976	NA	18,113
244-CR-003	1946	NA	55,494
244-CR-011	1946	NA	170,343

<sup>1</sup>The last year the tank was capable of receiving waste; actual date of last waste receipt might have been earlier.

**Table 2 - Single Shell Tank System Diversion Box Matrix**

Unit	SSTs	Diversion box	Construction date
A	241-A-101 through 241-A-106	241-A-152	1955
	241-AX-101 through 241-AX-104	241-A-153	1966
		241-AX-151	1963
		241-AX-152	1962
		241-AX-155	1983
		241-AY-151	1975
		241-AY-152	1970
B	241-B-101 through 241-B-112	241-B-151	1951
	241-B-201 through 241-B-204	241-B-152	1951
	241-BX-101 through 241-BX-112	241-B-153	1951
		241-B-154	1951
		241-B-252	1951

		241-BR-152	1952
		241-BX-153	1951
		241-BX-154	1951
		241-BX-155	1951
		241-BXR-151	1952
		241-BXR-152	1952
		241-BXR-153	1952
		241-BYR-152	1952
		241-BYR-153	1952
		241-BYR-154	1952
C	241-C-101 through 241-C-112	241-C-151	1951
	241-C-201 through 241-C-204	241-C-152	1951
		241-C-153	1951
		241-C-154	1965
		241-C-252	1951
		241-CR-151	1952
		241-CR-152	1952
		241-CR-153	1952
S	241-S-101 through 241-S-152	240-S-151	1952
	241-SX-101 through 241-SX-115	240-S-152	1952
		241-S-152	1975
		241-SX-151	1953
		241-SX-152	1957
T	241-T-101 through 241-T-112	241-T-151	1950
	241-T-201 through 241-T-204	241-T-152	1951
	241-TX-101 through 241-TX-118	241-T-153	1951
	241-TY-101 through 241-TY-106	241-T-252	1951
		242-T-151	1951
		241-TR-152	1951
		241-TR-153	1952
		241-TX-153	1951
		241-TX-155	1951
		241-TXR-151	1951
		241-TXR-152	1952
		241-TXR-153	1952
		241-TY-153	1952
U	241-U-101 through 241-U-112	241-U-153	1951
	241-U-201 through 241-U-204	241-U-252	1951
		241-UR-151	1951
		241-UR-152	1952
		241-UR-153	1952
		241-UR-154	1952

## IV. DESCRIPTION OF DANGEROUS WASTES

A. **DANGEROUS WASTE NUMBER** - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.

B. **ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE
P POUNDS	K KILOGRAMS
T TONS	M METRIC TONS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

## D. PROCESSES

## 1. PROCESS CODES:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

## 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.

3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES				
				1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03	D80			
X-2	D002	400	P	T03	D80			
X-3	D001	100	P	T03	D80			
X-4	D002			T03	D80			included with above
1	D001	204,116,566	K	S02	T01			Storage-Tank/Treatment-Tank
2	D002		↓	↓	↓			↓
3	D003		↓	↓	↓			↓
4	D004		↓	↓	↓			↓
5	D005		↓	↓	↓			↓
6	D006		↓	↓	↓			↓
7	D007		↓	↓	↓			↓
8	D008		↓	↓	↓			↓
9	D009		↓	↓	↓			↓
10	D010		↓	↓	↓			↓
11	D011		↓	↓	↓			↓
12	D018		↓	↓	↓			↓

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The quantity of waste lead stored in the diversion boxes is based on previous research of historical records. Because of the radiological hazards associated with individual inspection of the diversion boxes, a quantity of 23 kilograms (50 pounds) of waste lead was estimated for each box. This represents a conservative estimate, as 23 kilograms (50 pounds) is the maximum quantity of waste lead known to be in any one diversion box.

All existing facilities must include in the space provided on page 5 a scale drawing of the facility (see instructions for more detail).

All existing facilities must include photographs (*aerial or ground-level*) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (*see instructions for more detail*).

LATITUDE ( <i>degrees, minutes, &amp; seconds</i> )					LONGITUDE ( <i>degrees, minutes, &amp; seconds</i> )				

## VIII. FACILITY OWNER

- ☒ A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.
- ☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER

2. PHONE NO. (area code &amp; no.)

3. STREET OR P.O. BOX

4. CITY OR TOWN

5. ST.

6. ZIP CODE

## IX. OWNER CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

NAME (print or type)

SIGNATURE

DATE SIGNED

Keith A. Klein, Manager  
U. S. Department of Energy

L. L. Piper for

12/21/1999

## X. OPERATOR CERTIFICATION

*I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.*

NAME (print or type)

SIGNATURE

DATE SIGNED

SEE ATTACHMENT

*X. OPERATOR CERTIFICATION*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

L. L. Piper for  
Owner/Operator  
Keith A. Klein, Manager  
U.S. Department of Energy

12/21/99

Date

M. P. DeLozier  
Co-Operator  
M. P. DeLozier  
President and RPP General Manager  
CH2M HILL Hanford Group, Inc.\*

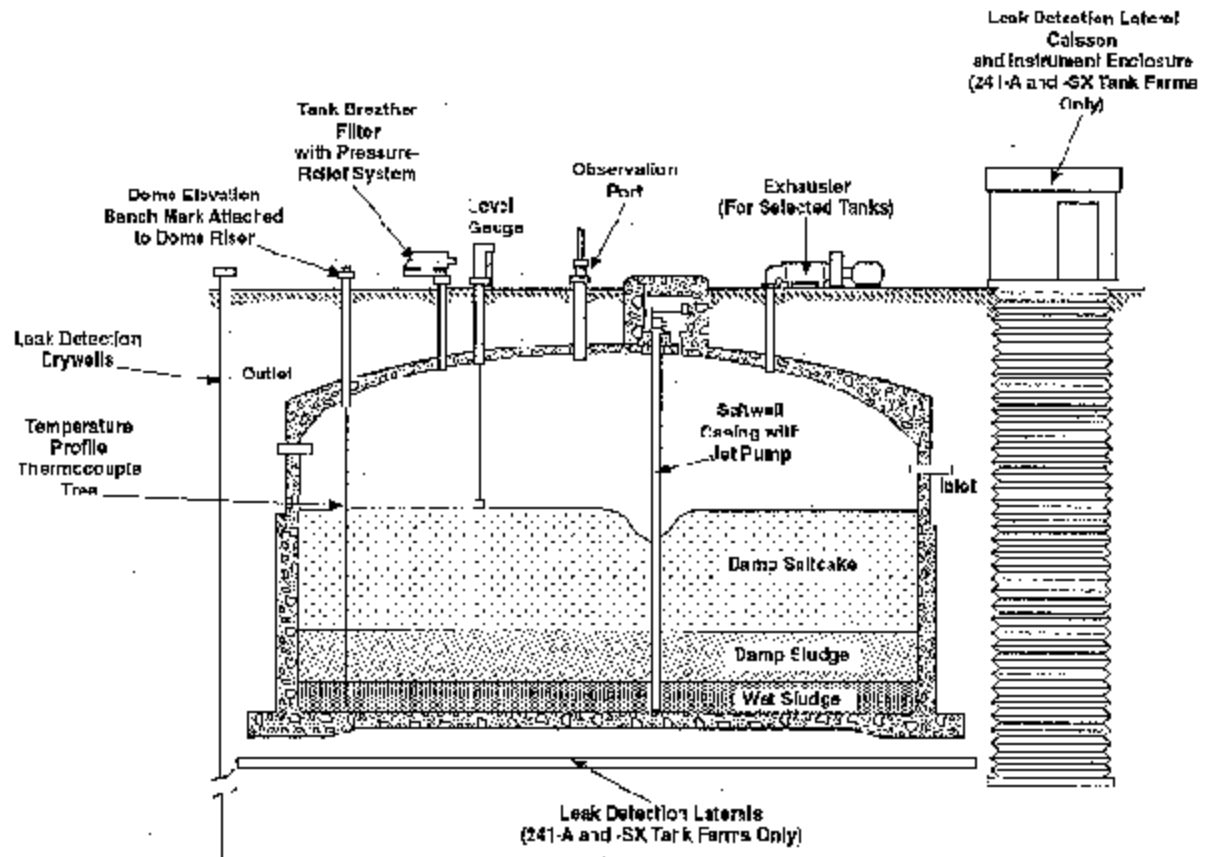
12/22/99

Date

\*Co-operator under Department of Energy Office of River Protection Contract  
#DE-AC06-99L14047.

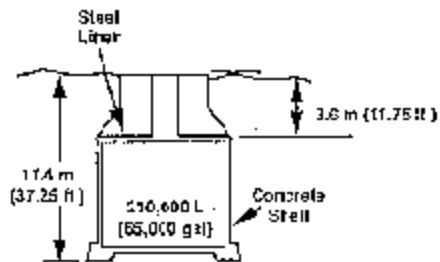
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## Typical Single-Shell Tank

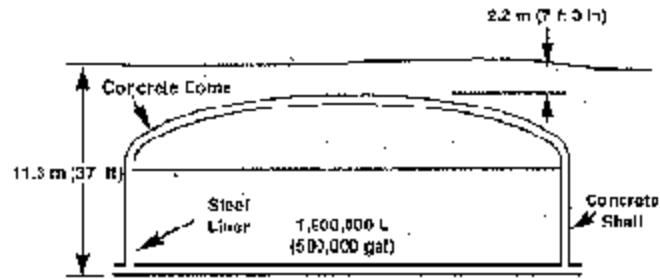


39208103.17

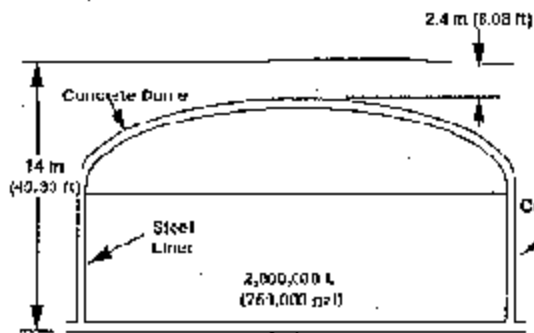
## Cross-Sectional Views of Single-Shell Tanks



6 m (20 ft) Diameter Single-Shell Tank

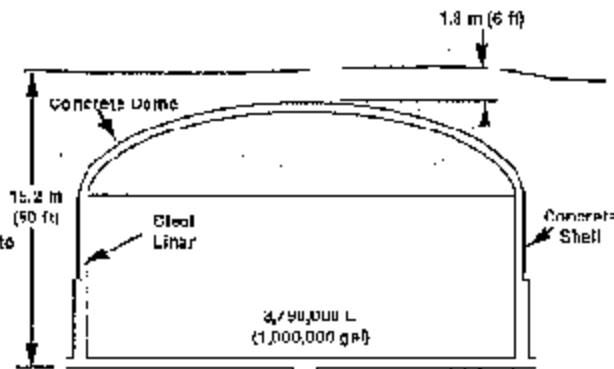


22.9 m (75 ft) Diameter Single-Shell Tank



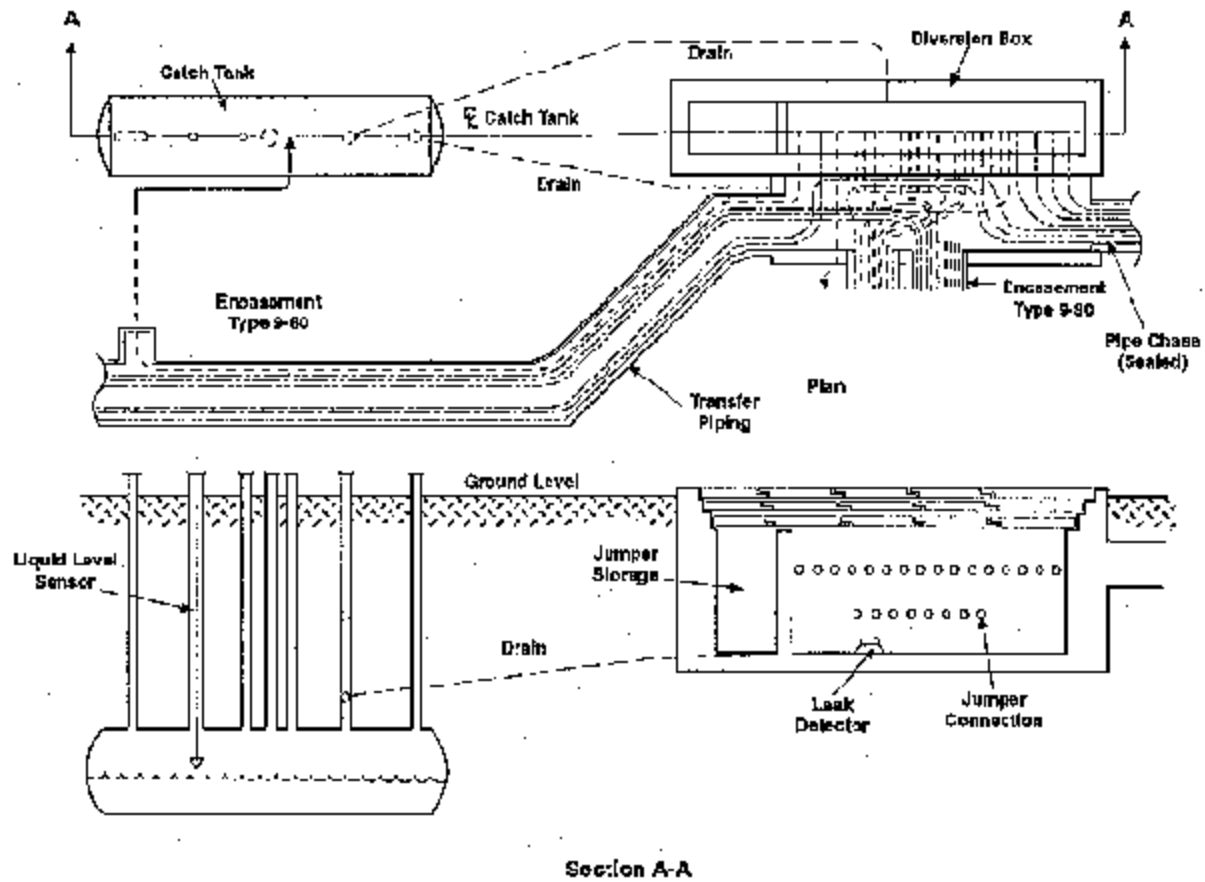
22.5 m (73 ft) Diameter Single-Shell Tank

NOTE: To convert liters to cubic meters, multiply by 0.001.  
To convert cubic meters to liters, multiply by 1,000.  
To convert gallons to liters, multiply by 3.7854.

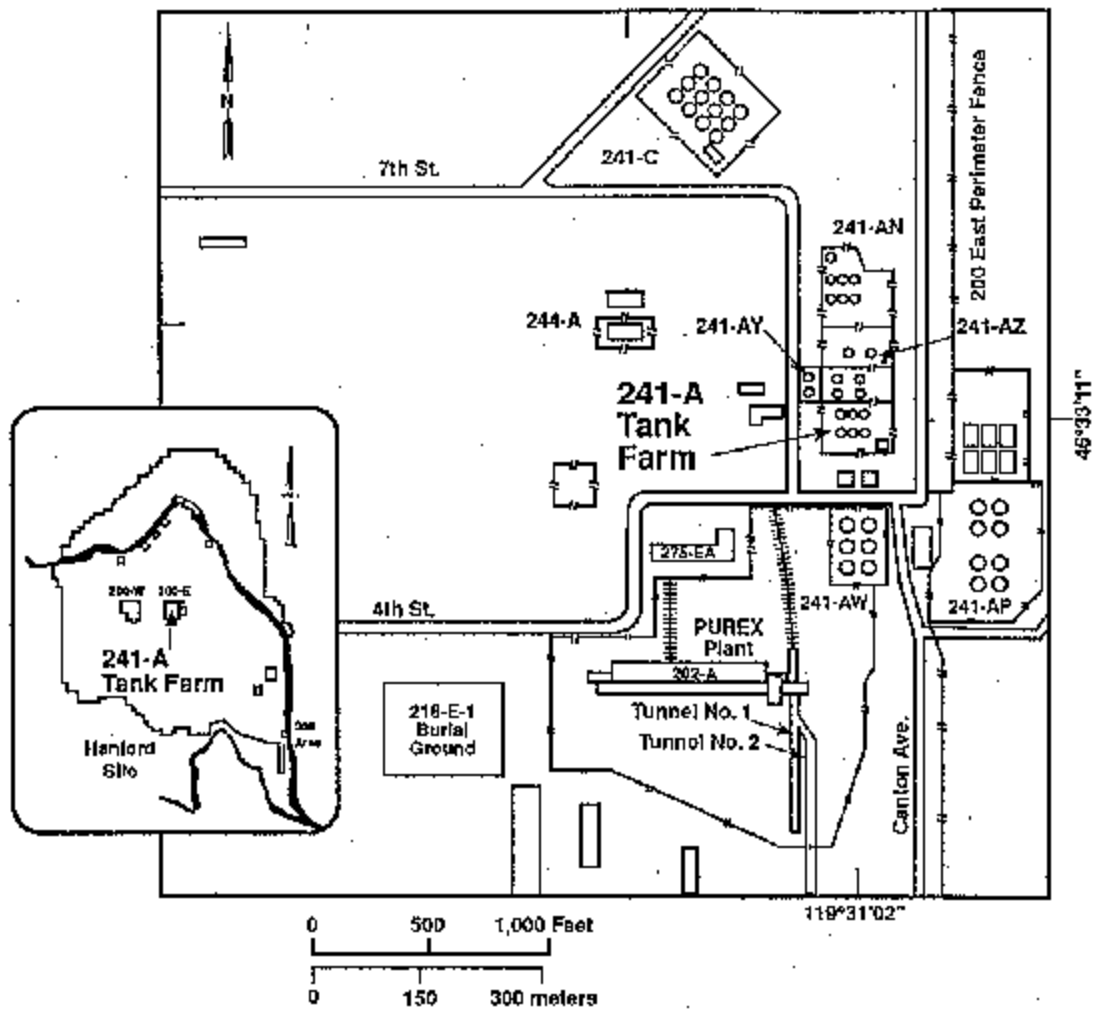


22.9 m (75 ft) Diameter Single-Shell Tank

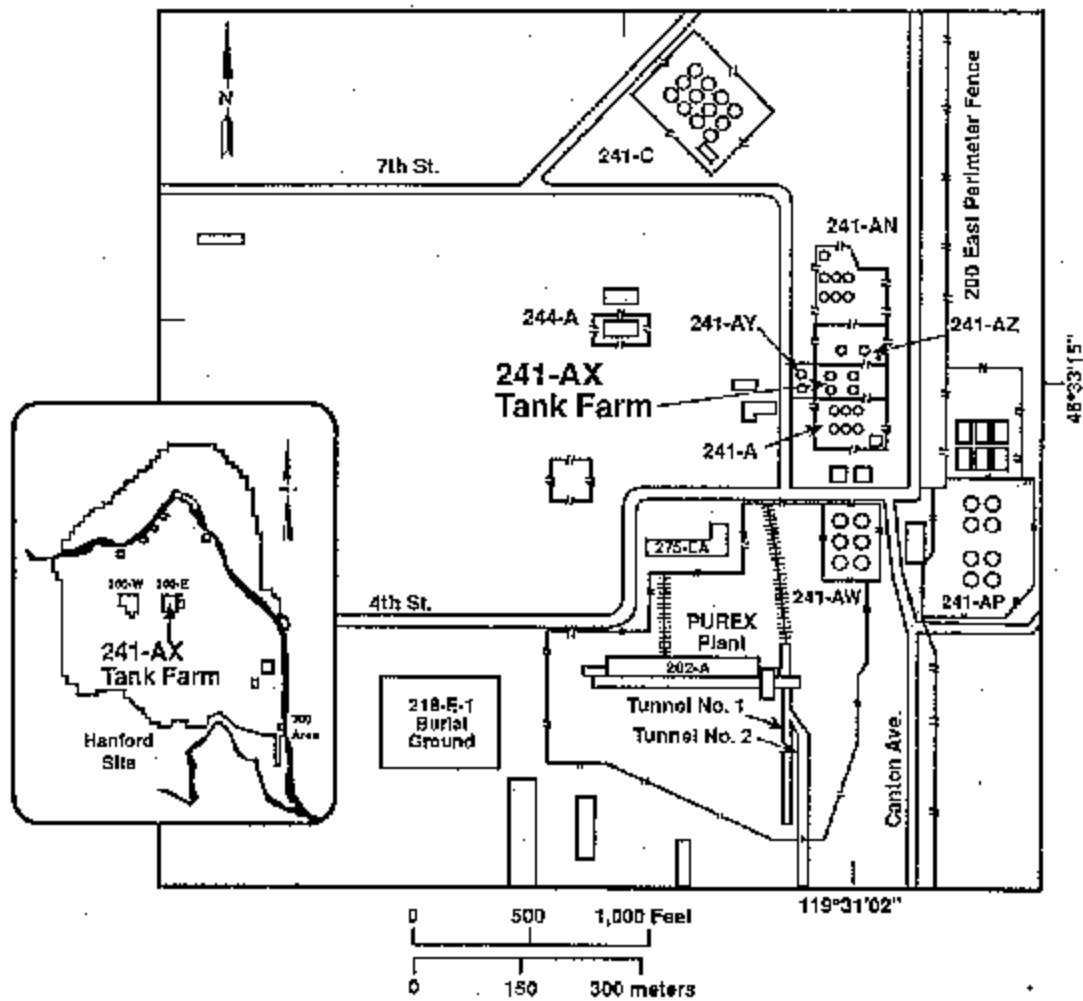
## Typical Transfer System



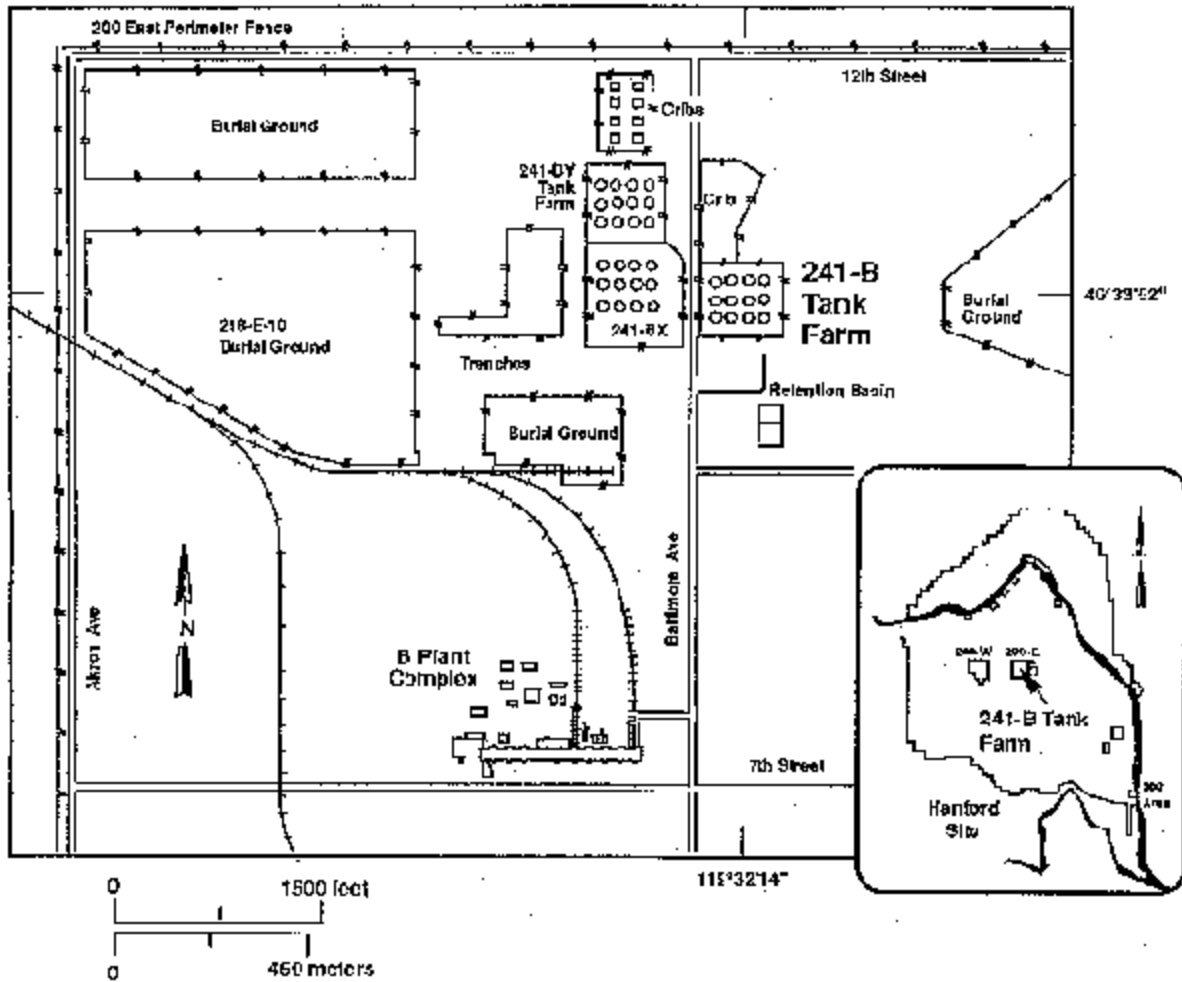
## 241-A Single-Shell Tank Farm Site Plan



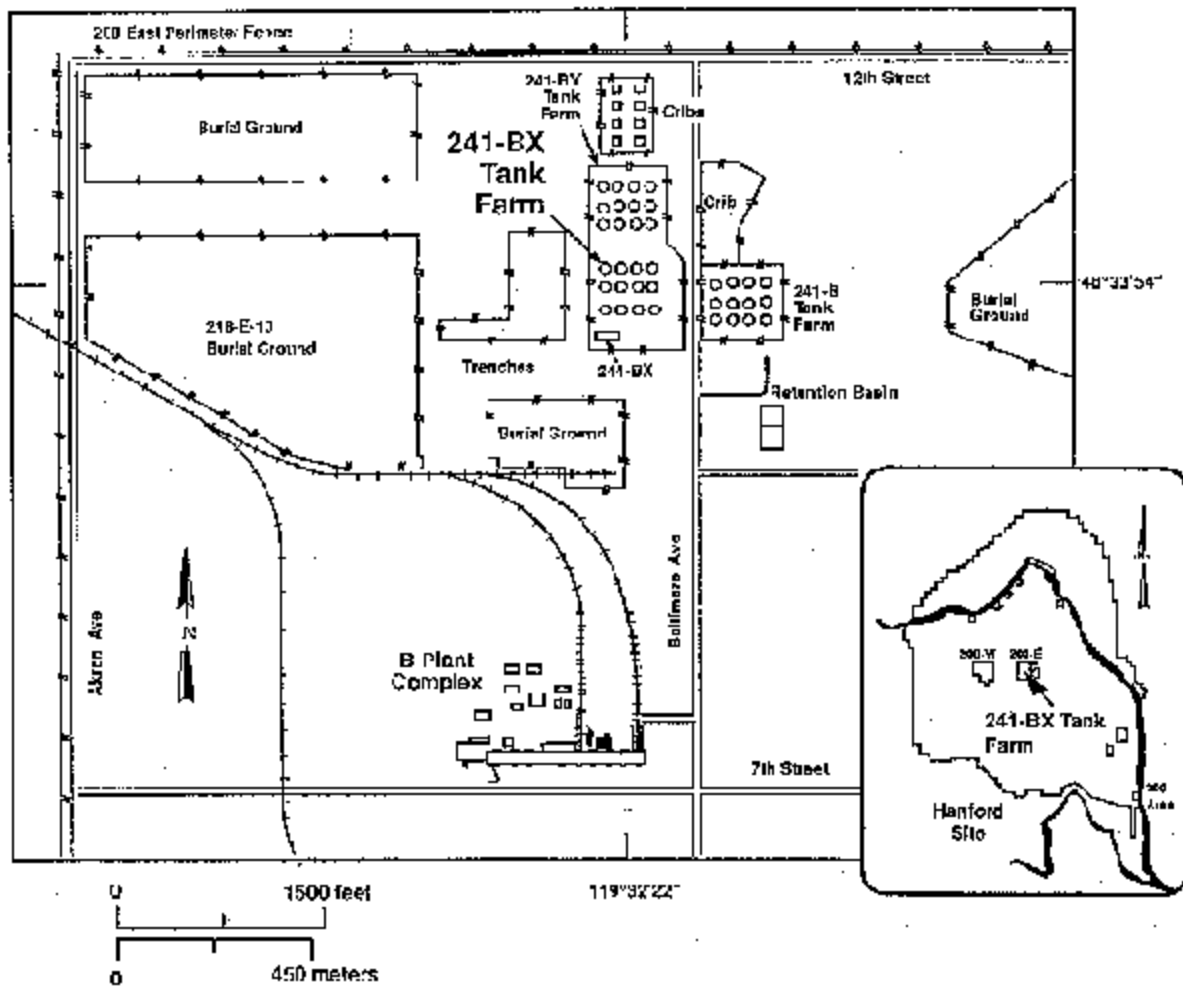
## 241-AX Single-Shell Tank Farm Site Plan



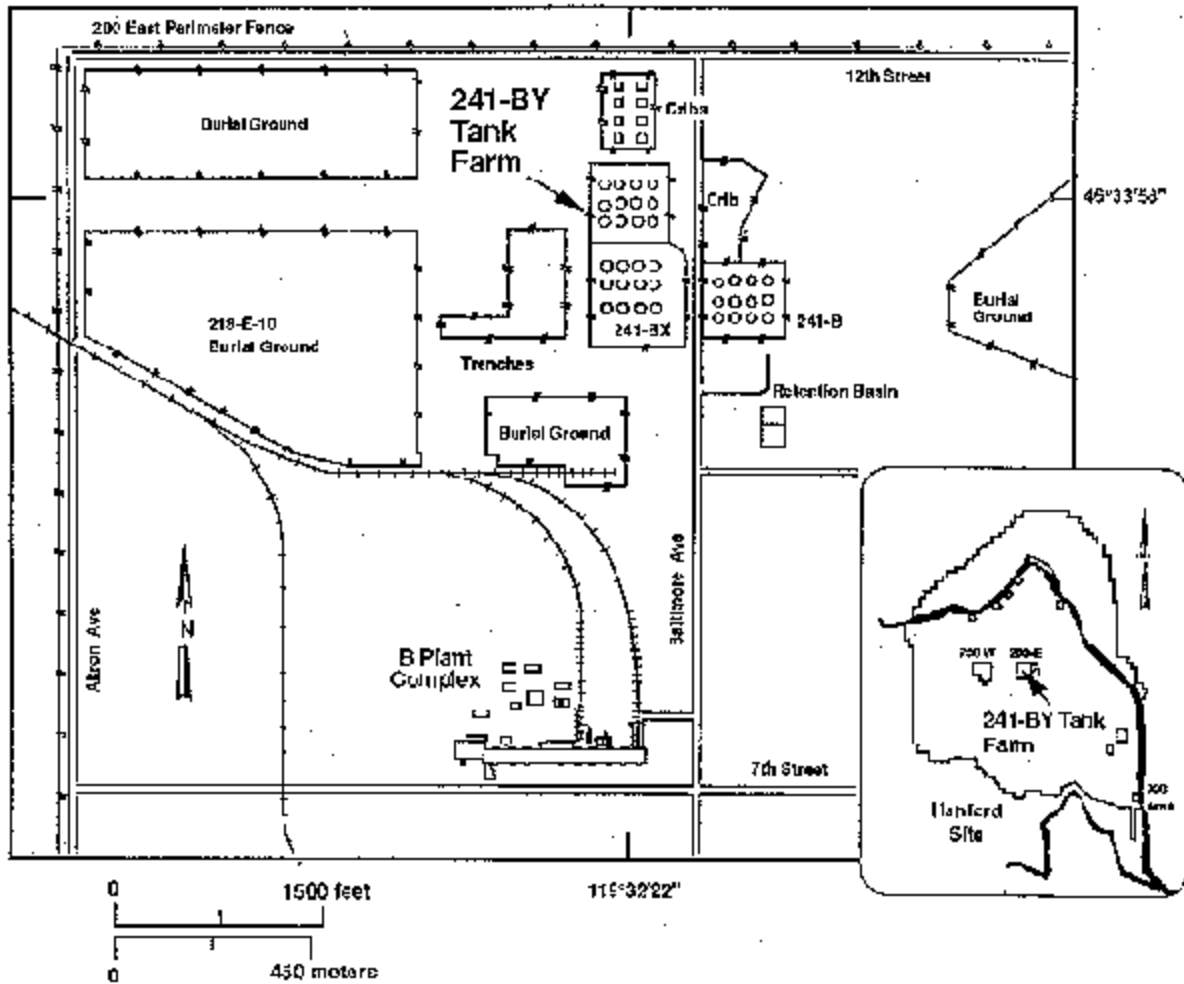
## 241-B Single-Shell Tank Farm Site Plan



## 241-BX Single-Shell Tank Farm Site Plan

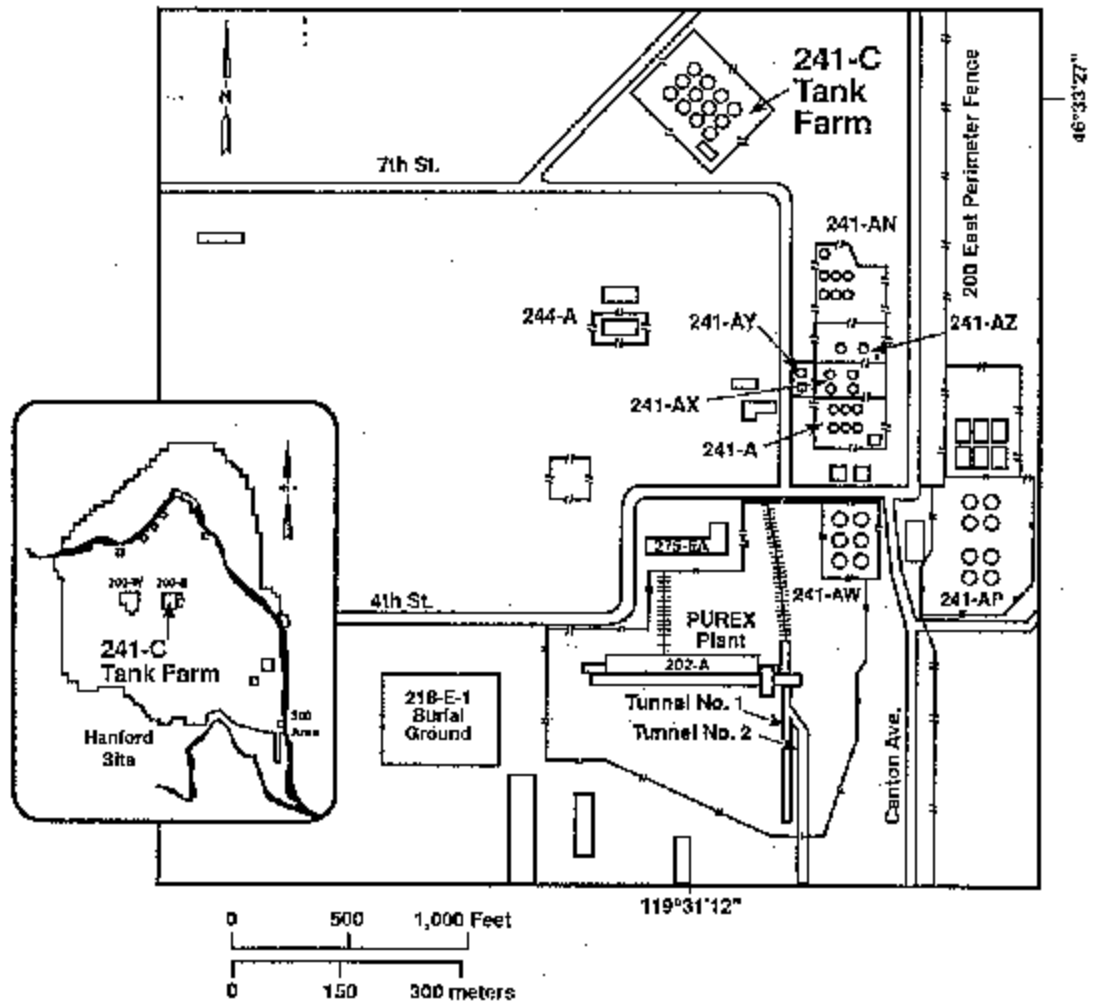


## 241-BY Single-Shell Tank Farm Site Plan



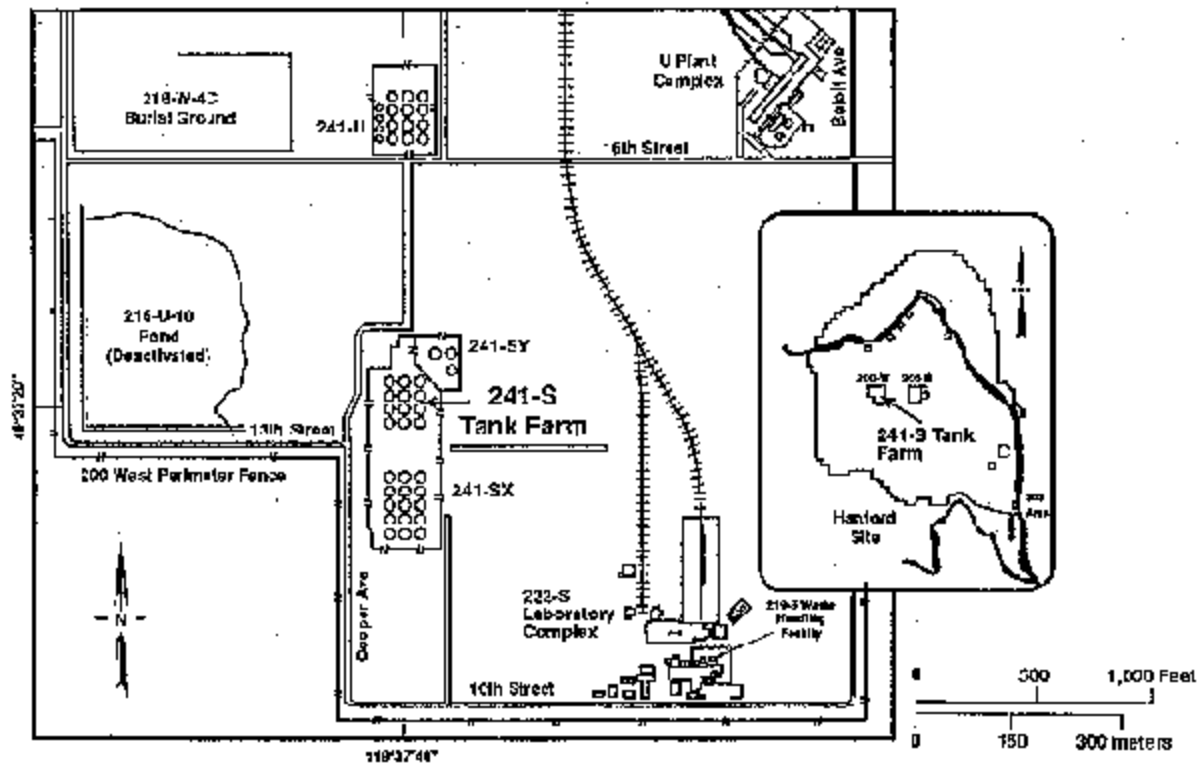
H96070161.41a

## 241-C Single-Shell Tank Farm Site Plan



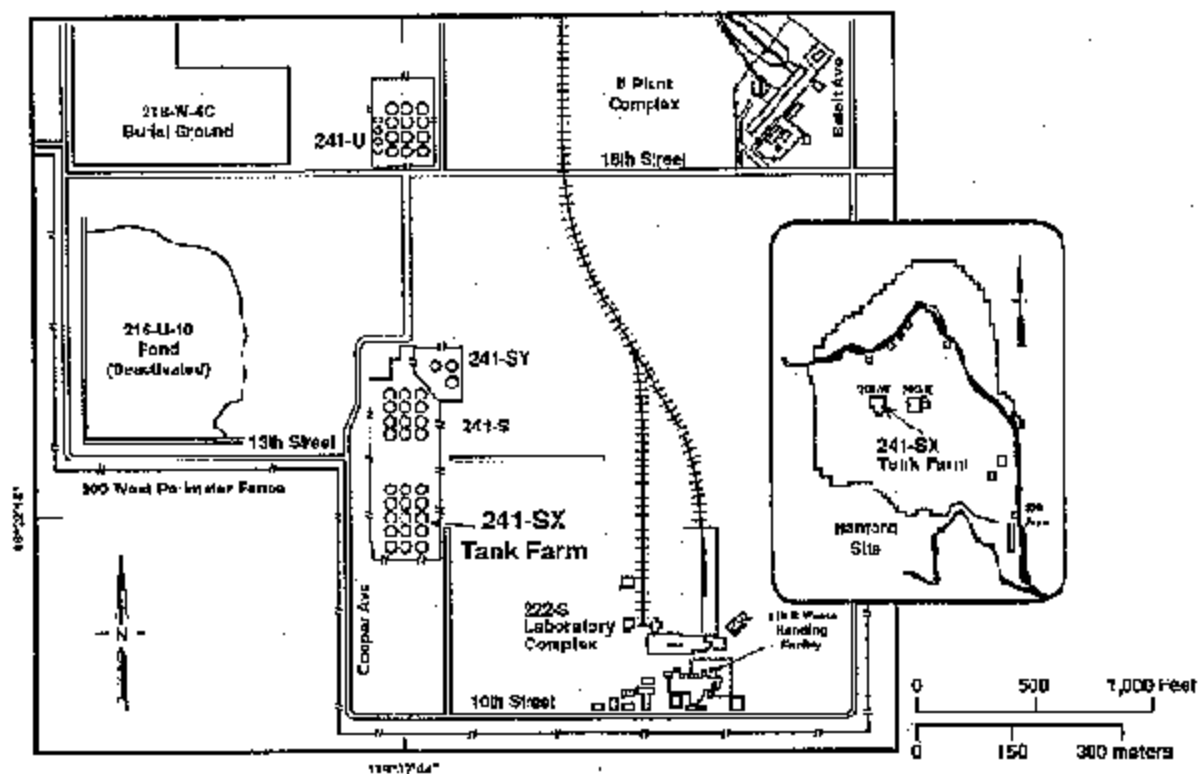
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## 241-S Single-Shell Tank Farm Site Plan



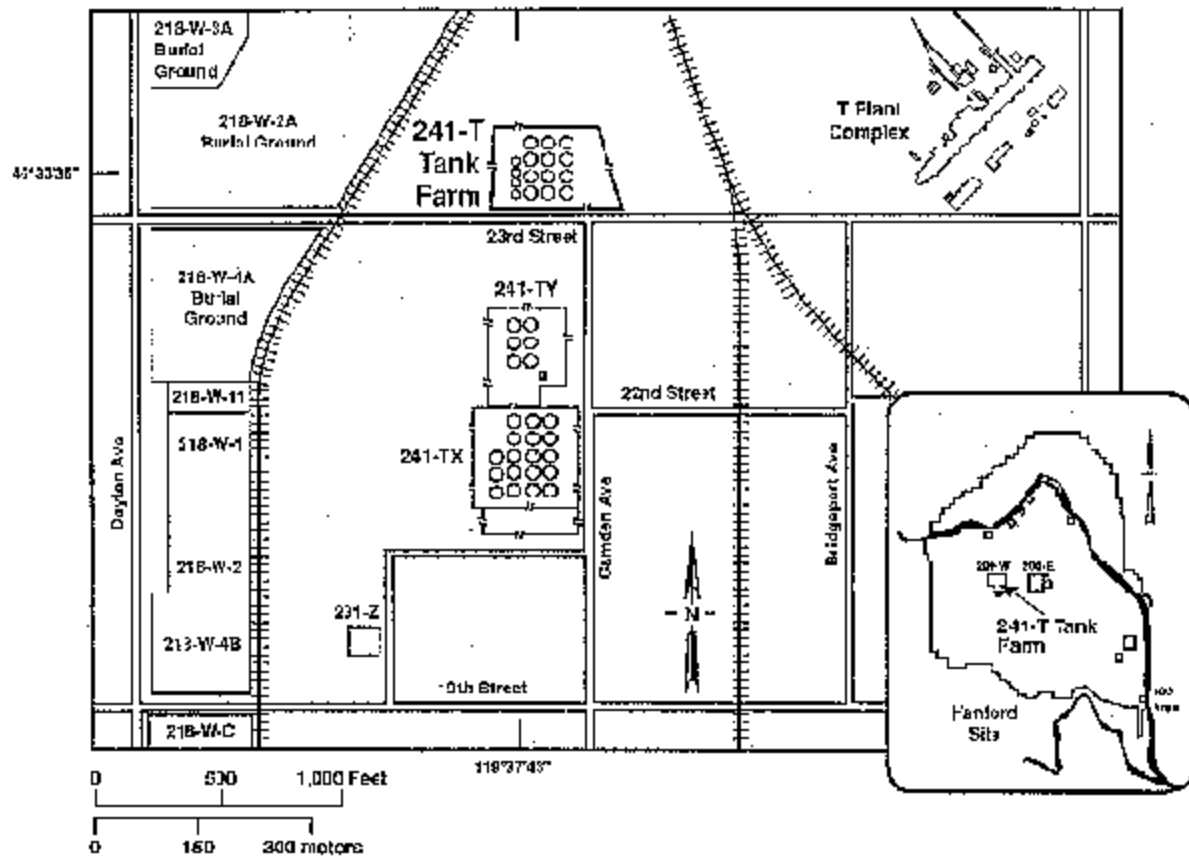
H96070161.37a

## 241-SX Single-Shell Tank Farm Site Plan



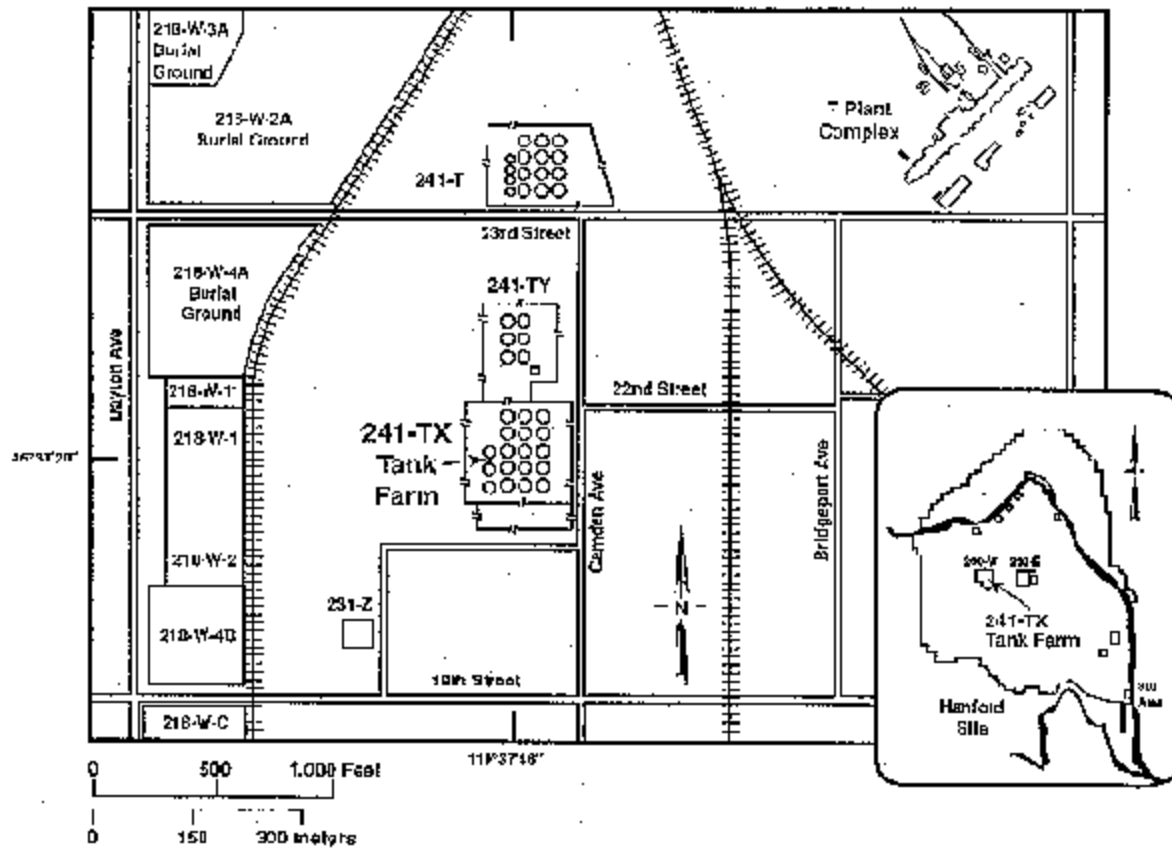
H96070161.37b

## 241-T Single-Shell Tank Farm Site Plan



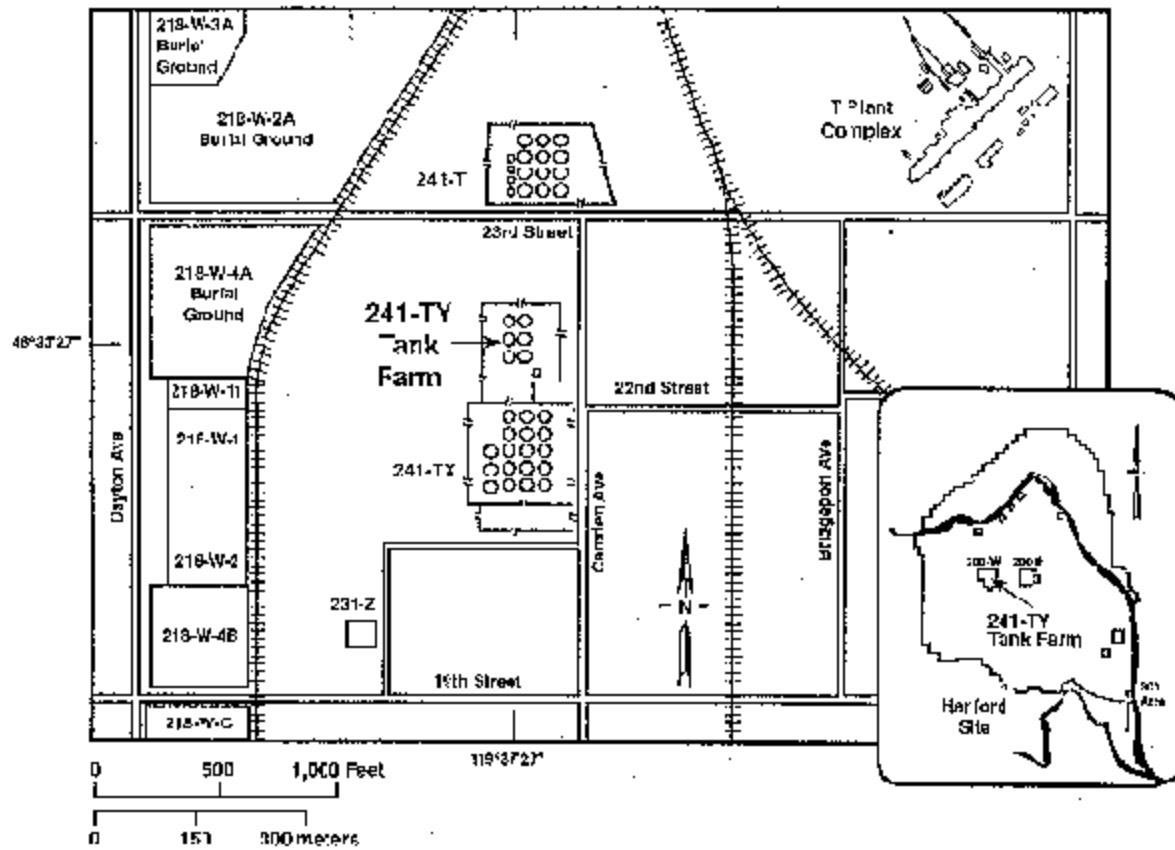
H96070161.39a

## 241-TX Single-Shell Tank Farm Site Plan



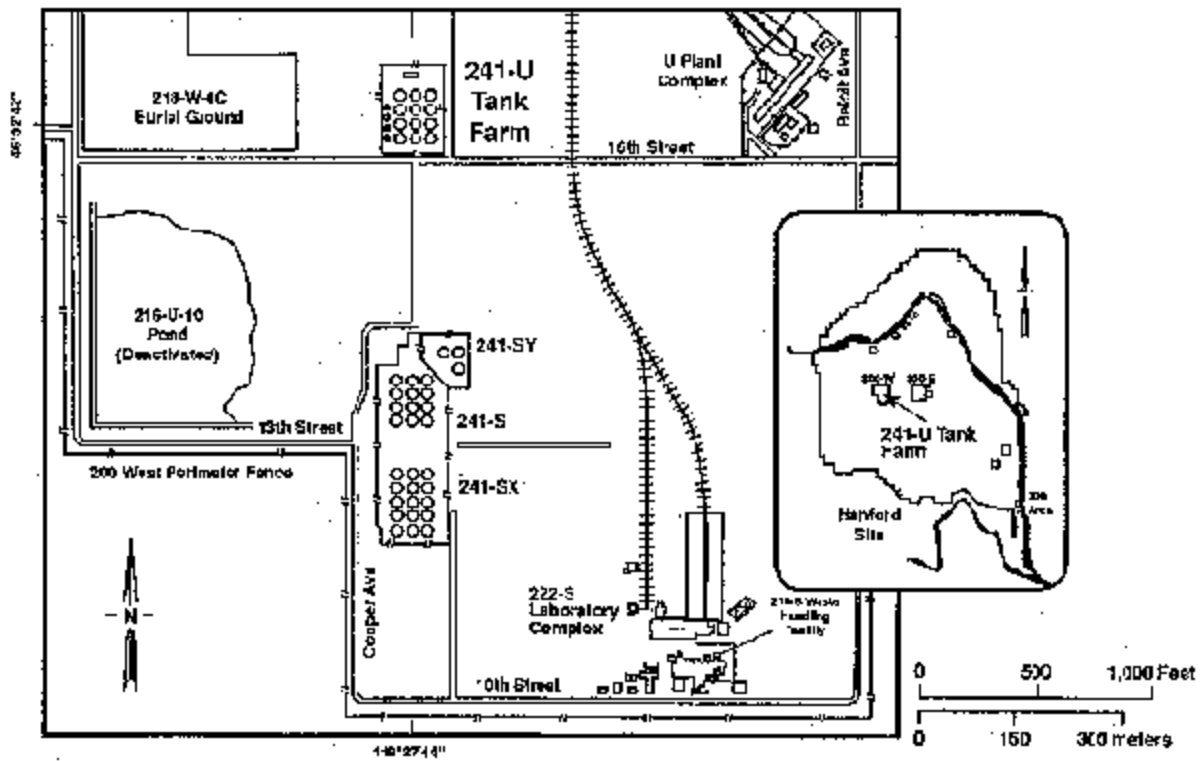
H96070161.39t

## 241-TY Single-Shell Tank Farm Site Plan



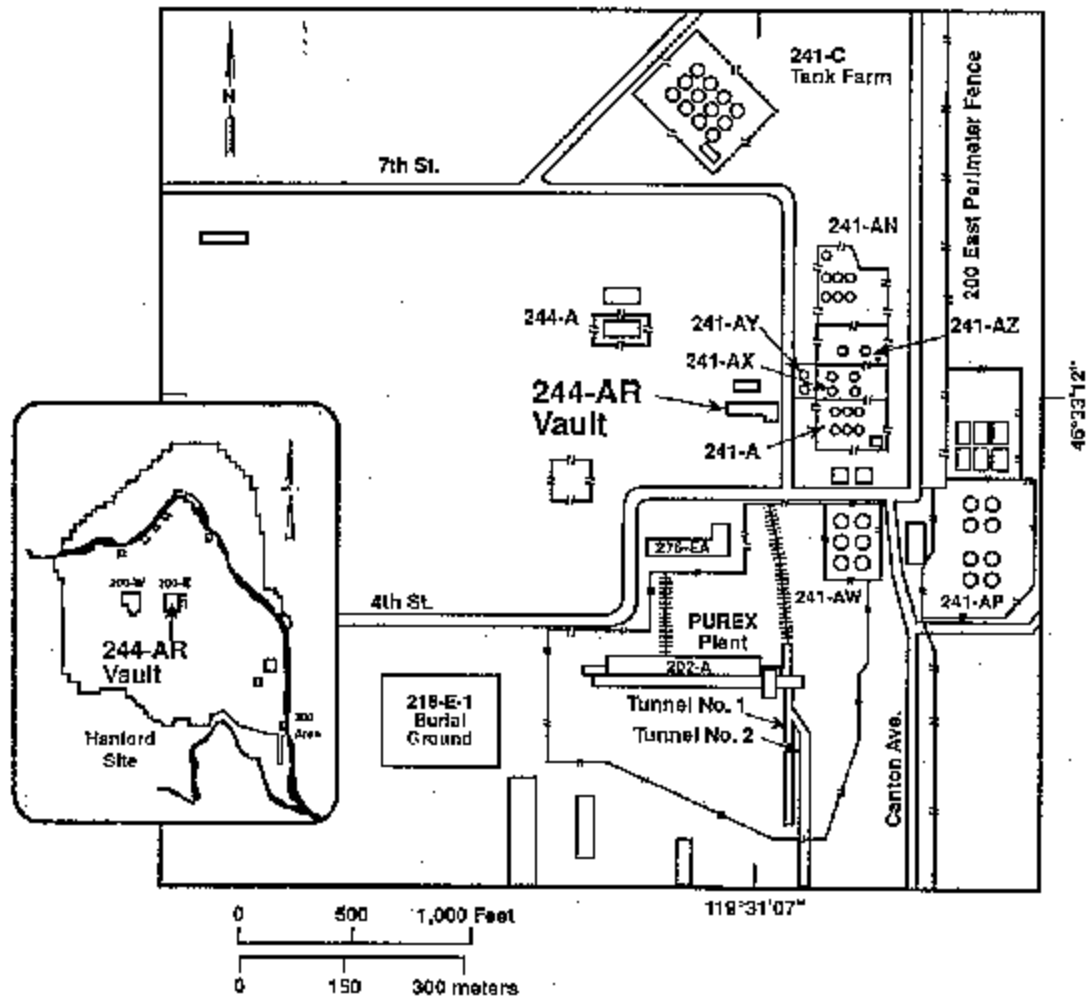
H96070161.39c

## 241-U Single-Shell Tank Farm Site Plan

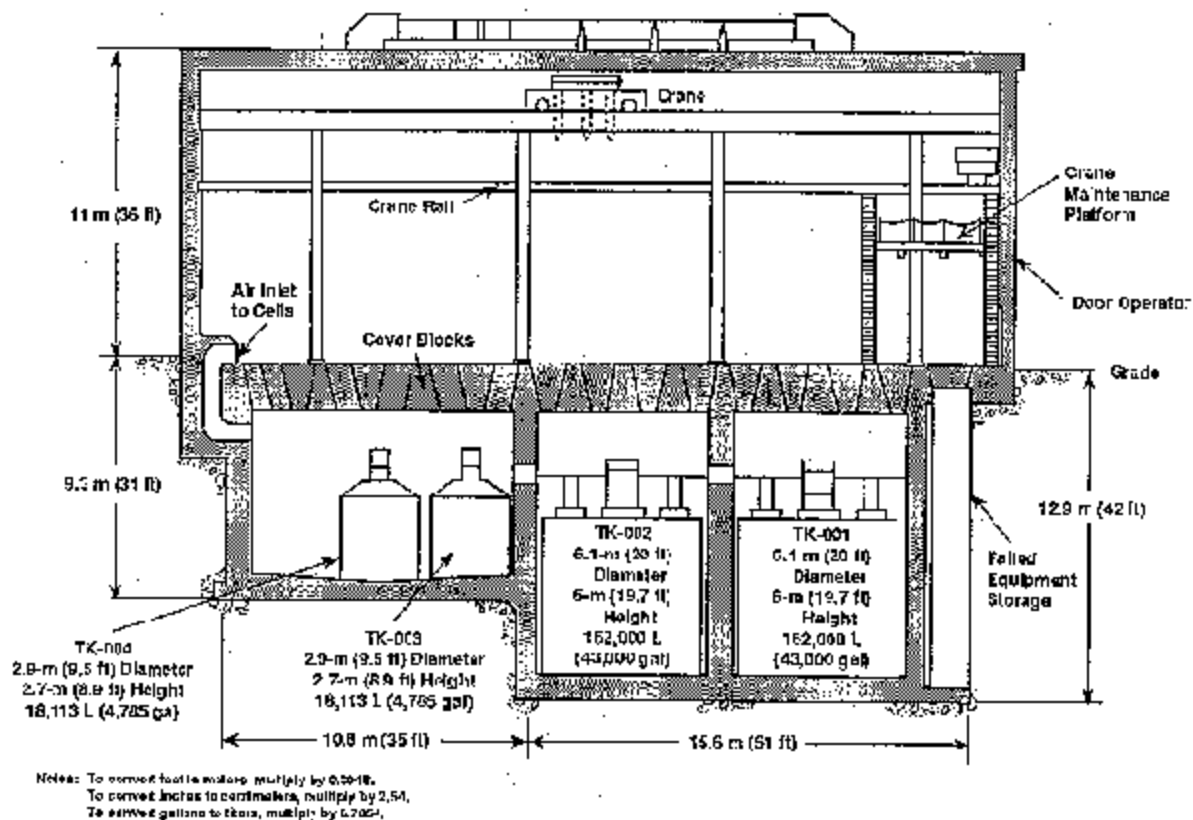


H96070161.37c

## 244-AR Vault Site Plan

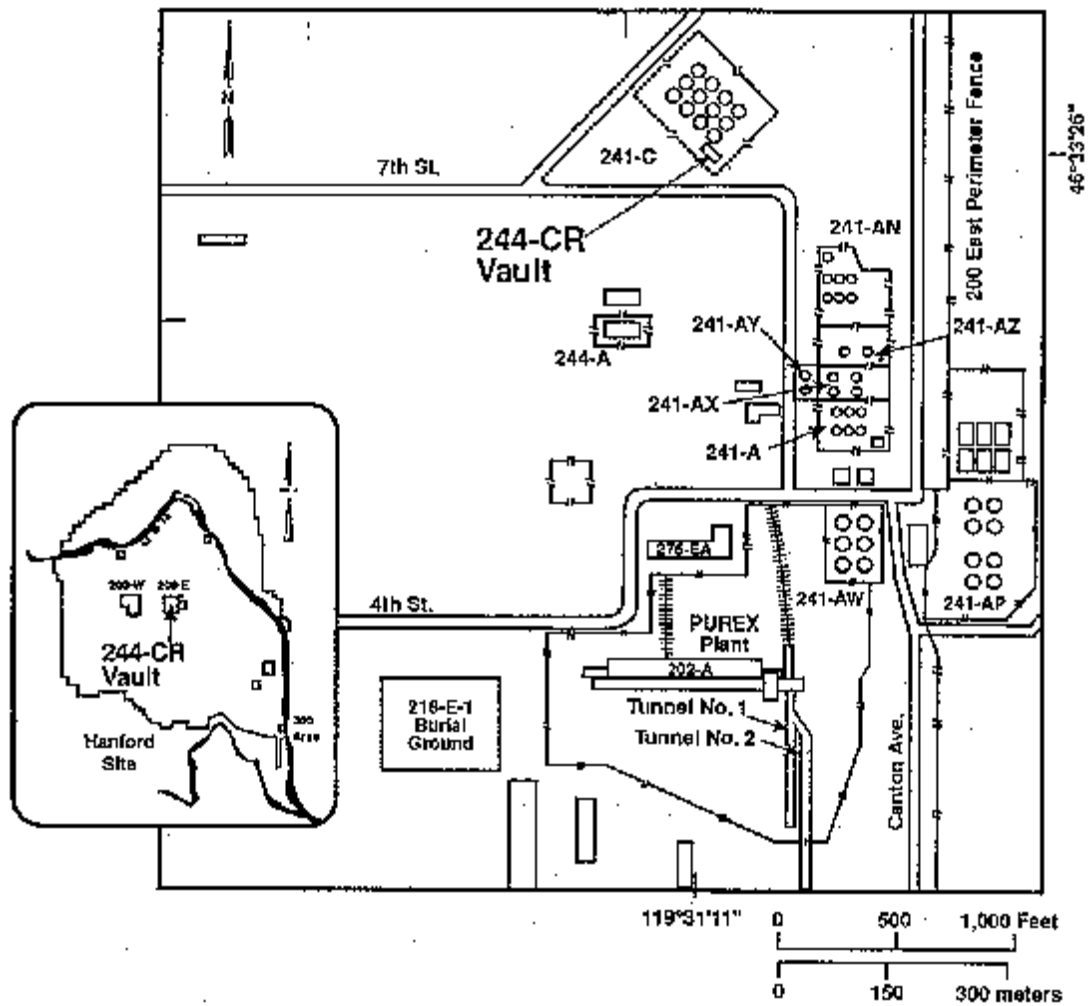


## 244-AR Vault

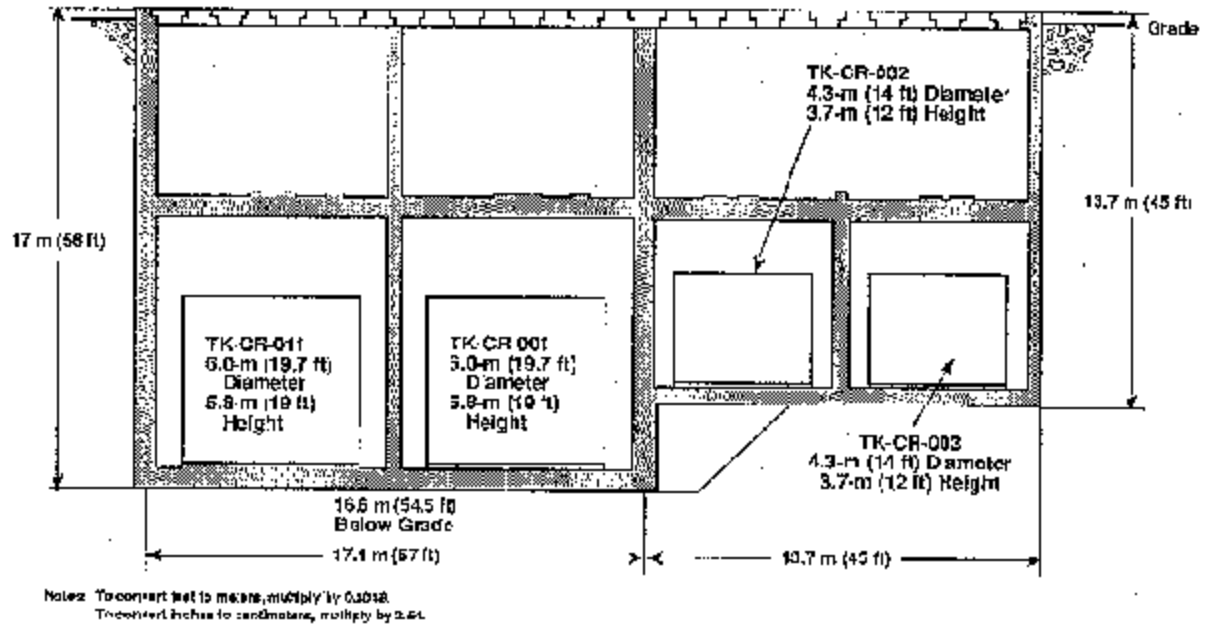


39208044.23

## 244-CR Vault Site Plan



## 244-CR Vault



39208044.22

## 241-A SINGLE-SHELL TANK FARMS



46°33'11"  
119°31'02"

8800284-1CN  
(PHOTO TAKEN 1988)

## 241-AX SINGLE-SHELL TANK FARM



46°33'15"  
119°31'02"

8800284-2CN  
(PHOTO TAKEN 1988)

## 241-AX SINGLE-SHELL TANK FARM



46°33'15"  
119°31'02"

8800284-3CN  
(PHOTO TAKEN 1988)

## 241-B SINGLE-SHELL TANK FARM



46°33'52"  
119°32'14"

8800284-6CN  
(PHOTO TAKEN 1988)

## 241-BX SINGLE-SHELL TANK FARM



46°33'54"  
119°32'22"

8800284-7CN  
(PHOTO TAKEN 1988)

## 241-BY SINGLE-SHELL TANK FARM



46°33'58"  
119°32'22"

96080579-27CN  
(PHOTO TAKEN 1996)

## 241-C SINGLE-SHELL TANK FARM



46°33'27"  
119°31'12"

8800284-5CN  
(PHOTO TAKEN 1988)

## 241-S SINGLE-SHELL TANK FARM



46°33'20"  
119°37'44"

96080579-3CN  
(PHOTO TAKEN 1996)

## 241-SX SINGLE-SHELL TANK FARM



46°32'16"  
119°37'44"

96080579-6CN  
(PHOTO TAKEN 1996)

## 241-T SINGLE-SHELL TANK FARM



**46°33'36"**  
**119°37'43"**

**96070579-13CN**  
**(PHOTO TAKEN 1996)**

## 241-TX SINGLE-SHELL TANK FARM



46°33'20"  
119°37'46"

96070579-15CN  
(PHOTO TAKEN 1996)

## 241-TY SINGLE-SHELL TANK FARM



46°33'27"  
119°37'27"

96080579-18CN  
(PHOTO TAKEN 1996)

## 241-U SINGLE-SHELL TANK FARM



46°32'42"  
119°37'44"

96080579-9CN  
(PHOTO TAKEN 1996)

## 244-AR VAULTS



46°33'12"  
119°31'07"

8704135-16CN  
(PHOTO TAKEN 1987)

## 244-CR VAULTS



46°33'26"  
119°31'11"

8704135-14CN  
(PHOTO TAKEN 1987)